

ABSTRACT OF THE DISCLOSURE

[068] Providing a multi-character material as part of a coating of an electrosurgical instrument. The multi-character material includes molecular chains having a hydrophobic characteristic or charged unit that bonds to a metallic substrate and/or a base material coating layer of the tip, and a hydrophilic characteristic that provides desired properties to the coated surface, such as the ability to attract water to assist in cooling and/or lubricating an electrosurgical tip, to create a low shear, sacrificial layer that protects and enhances eschar release characteristics, to supply a radical scavenger or inhibitor that reduces damage at the tip, and/or to deposit factors, such as healing factors, from the tip onto one or more contact surfaces of the patient's body. Optionally, an additional covering layer of a hydrophilic material may be applied over the multi-character material coating layer to increase the desired properties at the coated surface.

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